

"Strong Angel" Army PV

U.S. ARMY

Center for
Army
Analysis

Case Study No 4. PV for Hawaii.

6 - 16 June 2000

Exercise Code Named:

Pacific Rim 2000

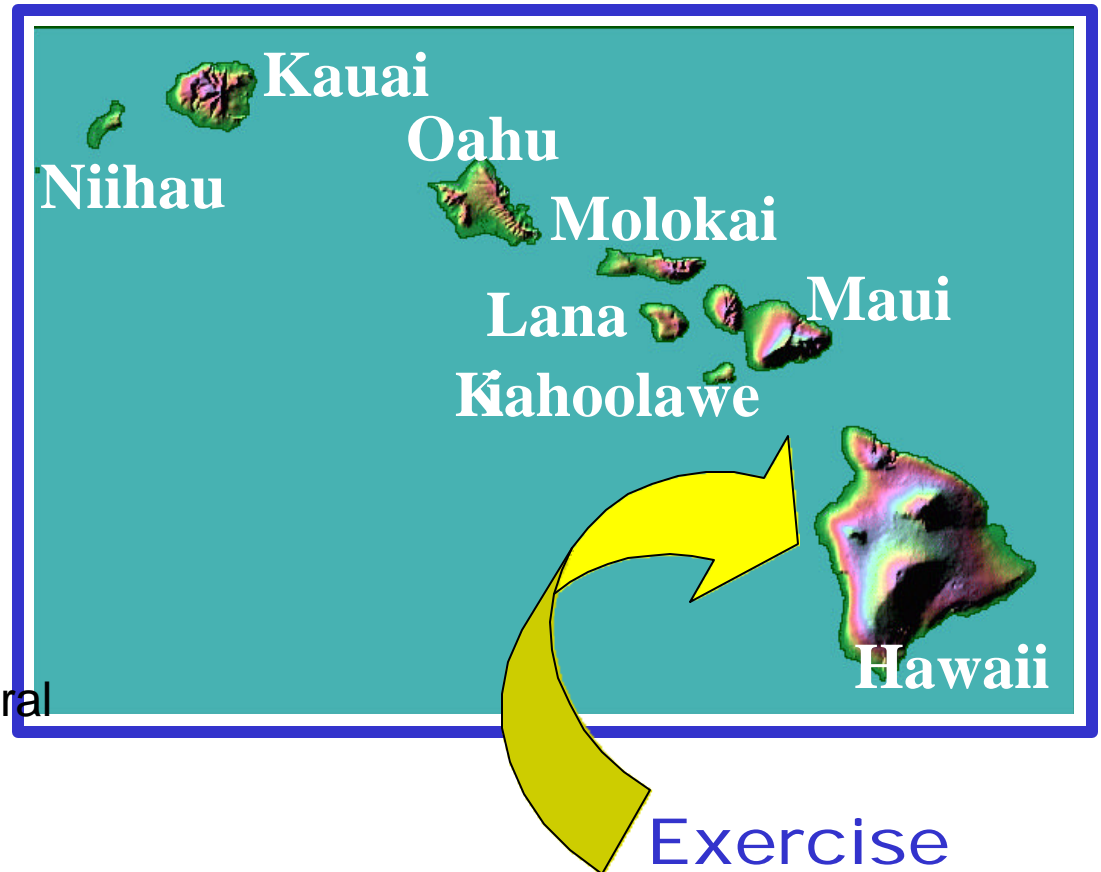
Participants:

UN Commissioner on Refugees, UN World Health Organization, US Navy, USMC and US Army

Purpose of Exercise: Execute contingency plans to provide primary services (clean water, food, electric power, temporary housing) for Pacific Rim countries ravaged by war or natural disaster.

Army Goals:

- Shakedown PV Systems destined for Kosovo.
- Begin to work with PV System's automated data-loggers.
- Observe / analyze other renewable energy technologies.



Exercise
Location:
Kona Coast

PV Improves Army Strategic Responsiveness

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1. Two-thirds of Smaller Scale Contingencies (SSCs) have been in regions with solar conditions equal to or better than Ft. Bragg
2. There is demand today for PV in SSCs -
e.g., Kosovo (3rd Battalion, 504 Parachute Infantry Regiment, 82nd Airborne - Task Force 3504)
3. Prepositioned PV can be used to supply electricity to maintain Prepositioned Equipment -
e.g., Qatar, Kuwait (3rd Army)
- AND -
... then be deployed as well
4. PV adds flexibility and agility to Army Forces

Economic Analysis

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Cumulative Net Present Value of Cost Avoidance

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Conventional Cases Vs. Photovoltaic Cases

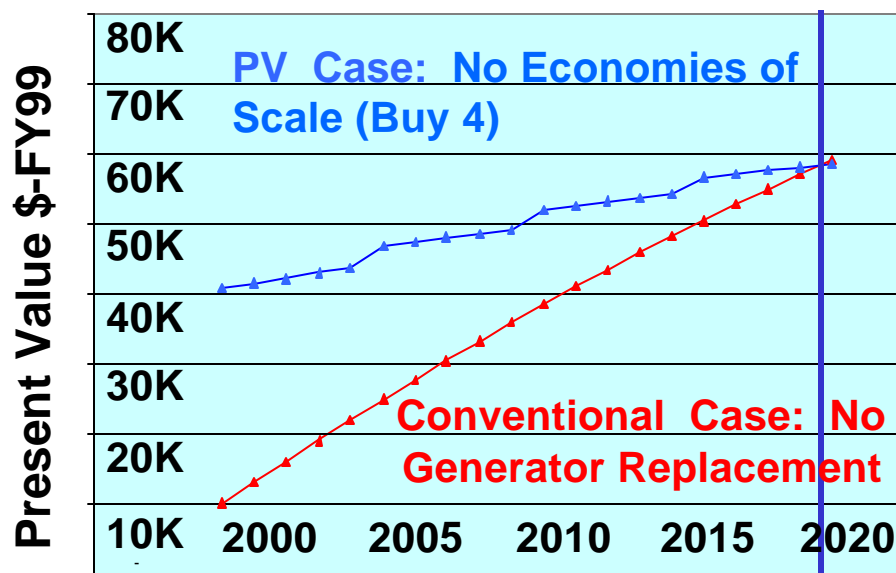


Figure 1

Worst Case for PV
• 18 Year Payback

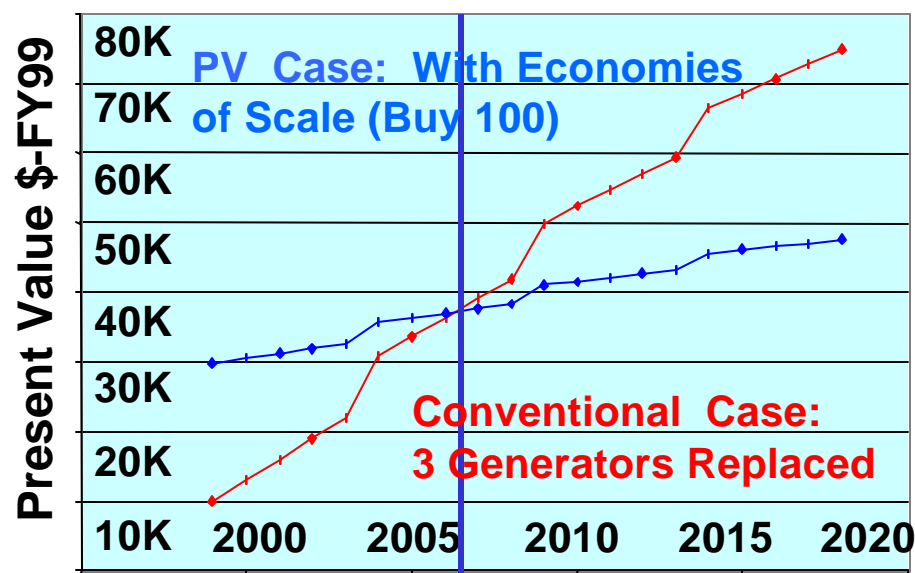


Figure 2

Best Case for PV
• 6 Year Payback

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